

1288495  
SEQUENCE LISTING

<110> Cambridge University Technical Services Limited  
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Della, Marina  
Weller, Geoffrey  
Jackson, Stephen

<120> Prokaryotic DNA Repair Ligases

<130> 6947-73362-01

<140> US 10/568,055

<141> 2006-02-10

<150> PCT/GB2004/003349

<151> 2004-08-02

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<151> 2003-08-12

<160> 92

<170> PatentIn version 3.1

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1288495

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1288495

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1288495

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1288495

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1288495

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1288495

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1288495

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Ala Thr Arg Lys Arg Trp Pro Asn Gly Val Asp Gln Pro Ala Phe Phe  
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Glu Lys Gln Leu Ala Leu Ser Ala Pro Pro Trp Leu Ser Arg Ala Thr  
Page 15

1288495

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| 115   | 120 | 125 |     |
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1288495

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His Tyr Asp Phe Arg Leu Glu Cys Asp Gly Val Leu Val Ser Trp Ala  
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Val Pro Lys Asn Leu Pro Asp Asn Thr Ser Val Asn His Leu Ala Ile  
355 360 365

His Thr Glu Asp His Pro Leu Glu Tyr Ala Thr Phe Glu Gly Ala Ile  
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Pro Ser Gly Glu Tyr Gly Ala Gly Lys Val Ile Ile Trp Asp Ser Gly  
385 390 395 400

Thr Tyr Asp Thr Glu Lys Phe His Asp Asp Pro His Thr Gly Glu Val  
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Arg Thr Asn Gly Asp Arg Trp Leu Ala His Arg Leu Lys Asn Gln Lys  
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Asp Gln Lys Val Phe Glu Phe Asp Asn Leu Ala Pro Met Leu Ala Thr  
450 455 460

His Gly Thr Val Ala Gly Leu Lys Ala Ser Gln Trp Ala Phe Glu Gly  
465 470 475 480

Lys Trp Asp Gly Tyr Arg Leu Leu Val Glu Ala Asp His Gly Ala Val  
485 490 495

Arg Leu Arg Ser Arg Ser Gly Arg Asp Val Thr Ala Glu Tyr Pro Gln  
500 505 510

Leu Arg Ala Leu Ala Glu Asp Leu Ala Asp His His Val Val Leu Asp  
515 520 525

Gly Glu Ala Val Val Leu Asp Ser Ser Gly Val Pro Ser Phe Ser Gln  
530 535 540

Met Gln Asn Arg Gly Arg Asp Thr Arg Val Glu Phe Trp Ala Phe Asp  
545 550 555 560

Leu Leu Tyr Leu Asp Gly Arg Ala Leu Leu Gly Thr Arg Tyr Gln Asp  
565 570 575

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Arg Arg Lys Leu Leu Glu Thr Leu Ala Asn Ala Thr Ser Leu Thr Val  
580 585 590

Pro Glu Leu Leu Pro Gly Asp Gly Ala Gln Ala Phe Ala Cys Ser Arg  
595 600 605

Lys His Gly Trp Glu Gly Val Ile Ala Lys Arg Arg Asp Ser Arg Tyr  
610 615 620

Gln Pro Gly Arg Arg Cys Ala Ser Trp Val Lys Asp Lys His Trp Asn  
625 630 635 640

Thr Gln Glu Val Val Ile Gly Gly Trp Arg Ala Gly Glu Gly Gly Arg  
645 650 655

Ser Ser Gly Val Gly Ser Leu Leu Met Gly Ile Pro Gly Pro Gly Gly  
660 665 670

Leu Gln Phe Ala Gly Arg Val Gly Thr Gly Leu Ser Glu Arg Glu Leu  
675 680 685

Ala Asn Leu Lys Glu Met Leu Ala Pro Leu His Thr Asp Glu Ser Pro  
690 695 700

Phe Asp Val Pro Leu Pro Ala Arg Asp Ala Lys Gly Ile Thr Tyr Val  
705 710 715 720

Lys Pro Ala Leu Val Ala Glu Val Arg Tyr Ser Glu Trp Thr Pro Glu  
725 730 735

Gly Arg Leu Arg Gln Ser Ser Trp Arg Gly Leu Arg Pro Asp Lys Lys  
740 745 750

Pro Ser Glu Val Val Arg Glu  
755

<210> 92  
<211> 273

<212> PRT  
<213> Mycobacterium tuberculosis

<400> 92

Met Arg Ala Ile Trp Thr Gly Ser Ile Ala Phe Gly Leu Val Asn Val  
1 5 10 15

Pro Val Lys Val Tyr Ser Ala Thr Ala Asp His Asp Ile Arg Phe His  
20 25 30

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Gln Val His Ala Lys Asp Asn Gly Arg Ile Arg Tyr Lys Arg Val Cys  
35 40 45

Glu Ala Cys Gly Glu Val Val Asp Tyr Arg Asp Leu Ala Arg Ala Tyr  
50 55 60

Glu Ser Gly Asp Gly Gln Met Val Ala Ile Thr Asp Asp Asp Ile Ala  
65 70 75 80

Ser Leu Pro Glu Glu Arg Ser Arg Glu Ile Glu Val Leu Glu Phe Val  
85 90 95

Pro Ala Ala Asp Val Asp Pro Met Met Phe Asp Arg Ser Tyr Phe Leu  
100 105 110

Glu Pro Asp Ser Lys Ser Ser Lys Ser Tyr Val Leu Leu Ala Lys Thr  
115 120 125

Leu Ala Glu Thr Asp Arg Met Ala Ile Val His Phe Thr Leu Arg Asn  
130 135 140

Lys Thr Arg Leu Ala Ala Leu Arg Val Lys Asp Phe Gly Lys Arg Glu  
145 150 155 160

Val Met Met Val His Thr Leu Leu Trp Pro Asp Glu Ile Arg Asp Pro  
165 170 175

Asp Phe Pro Val Leu Asp Gln Lys Val Glu Ile Lys Pro Ala Glu Leu  
180 185 190

Lys Met Ala Gly Gln Val Val Asp Ser Met Ala Asp Asp Phe Asn Pro  
195 200 205

Asp Arg Tyr His Asp Thr Tyr Gln Glu Gln Leu Gln Glu Leu Ile Asp  
210 215 220

Thr Lys Leu Glu Gly Gly Gln Ala Phe Thr Ala Glu Asp Gln Pro Arg  
225 230 235 240

Leu Leu Asp Glu Pro Glu Asp Val Ser Asp Leu Leu Ala Lys Leu Glu  
245 250 255

Ala Ser Val Lys Ala Arg Ser Lys Ala Asn Ser Asn Val Pro Thr Pro  
260 265 270

Pro

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